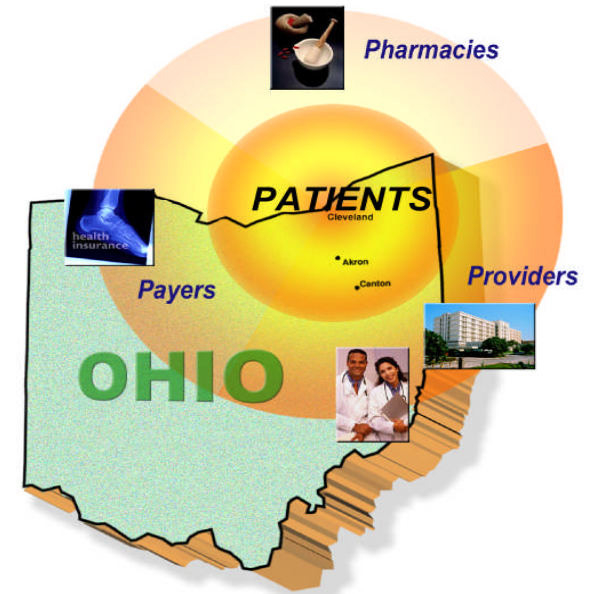onecommunity

connecting > enabling > transforming

An Urban/Rural Health Care Showcase

OneCommunity/NEO RHIO

Rural Health Care Pilot Proposal

GOALS FOR TODAY

- ## Who we are:
  - History of OneCommunity
  - Key Differentiators
  - Approach and Philosophies
  - Goals and Objectives
  - Accomplishments
  - International Recognition and Awards
  - History of Northeast Ohio Health Care /NEO RHIO
- ## FCC RHCP Proposal:
  - OneCommunity/NEO RHIO "HealthNet"
- ## OneCommunity:
  - Supplemental Information
- ## NEO RHIO:
  - Supplemental Information

History of OneCommunity

Founded in 2003 as 501©(3) to Drive Enhanced Health, Education and Government

- After two years of grassroots community efforts, formally incorporated with support from broad base of support including civic and business leaders, foundations, high tech leaders, and community activists all aimed to leverage technology as a tool for transformation of health, education, and government across our region.
- Founded by top local public sector enterprises including higher education institutions, government, PK-12, local PBS affiliate, library systems, economic development, etc.
- Acquired and continue to acquire excess fiber primarily through donations to drive economic development:
  - Manage over 600 route miles of fiber and prompted the build out of an additional 400 route miles of fiber built by our partners (e.g. Time Warner/at&t)
  - Forecast to connect more than 1,500 primarily health and education sites by year end '07

Key Differentiators

- Most connected community network in the nation
  - Projected to serve nearly 1 million citizens across health, education, arts and government with via our private fiber network.
  - Provide all fiber access to each other, the world and national leaders including NLR/Internet2 and the State of Ohio fiber network.
  - Today connect more than 600 health care, universities, PK-12 schools, and libraries with a year end forecast approaching 1,500.
- Most collaborative, and leveraged network in the nation, prompting rapid growth and proven sustainability.
  - Demonstrated strong national and international recognition for achievements and innovative approach
  - A history of successful and innovative public/private partnerships including phone and cable companies.
  - Background in working with global health care organizations, urban and rural hospitals as a neutral convener with a strong track record
- Proven entrepreneurial approach builds scale, impact, and sustainability into each program.

- **HealthNet represents a unique urban/rural showcase with a well organized community with a proven track record for successfully serving as a model for other communities nationwide.**

APPROACH and PHILOSOPHIES
Leveraging Technology to address region's top social priorities

- **Focus on Adoption, Scalability and Sustainability**
  - **Leverage Existing Assets (public and private)**
  - **Collaborate, Co-invest and Share Resources**
  - **Community Governance and Engagement is key**
  - **Remove barriers, aggregate resources, provide expertise where needed**

- **Applications drive adoption;** the key to success, sustainability and deriving real value is customer-centric applications and approaches.

- **Collaborations** prompt innovation and attract local and outside resources.

- **Partner with local private-sector tech companies** to leverage their core competencies, strengths, and assets to scale the delivery of advanced technologies.

Goals & Objectives

- *Focus on leveraging technology to address top social priorities (drivers) such as:*

  Quality of Life, Digital Divide, Economic Development, Social Networking, Community Collaboration, Capacity Building for Community and Public Services, Innovation, Shared Services

- Increase the adoption of technology to improve health care, education, government, community services and drive economic development:

  - Support development of digital infrastructure and universal access
  - Help communities navigate complex technology environment to accelerate deployment and support sustainability
  - Help eliminate barriers to adoption, reduce costs and build capacity for organizations
  - Drive adoption of technology through content, applications, and programs
  - Serve as a convener to build community consensus, support and momentum
  - Partner with private-sector tech companies to support efforts and begin developing capacities to support resulting increased market demands
  - Develop scaleable, sustainable, high-impact projects as community showcases and proof concepts demonstrating power of technology

OneCommunity Accomplishments

- Connected institutions at more than <u>600 sites</u> serving more than <u>800,000 constituents such as doctors, nurses, and students</u>

- Attracted more than <u>$30 million</u> of investment to our region and invested <u>$14 million</u> in cash and in-kind donations to develop and deploy broadband infrastructure and innovative community applications.

- Secured <u>agreements with region's cable and telecom players</u> to enhance reach and cost effectiveness of the network

- Operating a network <u>24x7x365 with more than 99.99%</u> reliability with our partners

- Brought <u>together our health care, K-12, government, arts and culture, higher education, research networks, and our nonprofit community members</u> to share programs and web-based technologies

- Expanded the visibility to our organization and our region globally

Connecting Hundreds of Sites
Across the Region

K-12 Education
- Cleveland Municipal School District
- Entrepreneurial Preparatory School (EPrep)
- Hathaway Brown School
- Instructional Technology Centers (ITC)
  - -Lakeshore Northeast Ohio Computer Assoc. (LNOCA)

Higher Education
- Case Western University
- Cleveland State University
- Cuyahoga Community College
- Hiram College
- Lakeland College
- Myers College
- University of Akron
- Ursuline College

Arts & Culture
- Cleveland Institute of Art
- Cleveland Metroparks Zoo
- Cleveland Museum of Art
- Cleveland Orchestra
- Cleveland Public Art
- Great Lakes Science Center
- Museum of Contemporary Art (MOCA)
- Western Reserve Historical Society

Health Care
- Akron Children's Hospital
- Cleveland Clinic Foundation
- Mercy Medical Center
- MetroHealth Systems
- Parma Community Hospital
- Sisters of Charity St. Augustine – St. Vincent Charity   Hospital
- Southwest General Hospital
- St. John Westshore Hospital
- Strongsville Medical Center
- University Hospitals

Government
- City of Cleveland
- City of Cleveland Heights
- City of East Cleveland
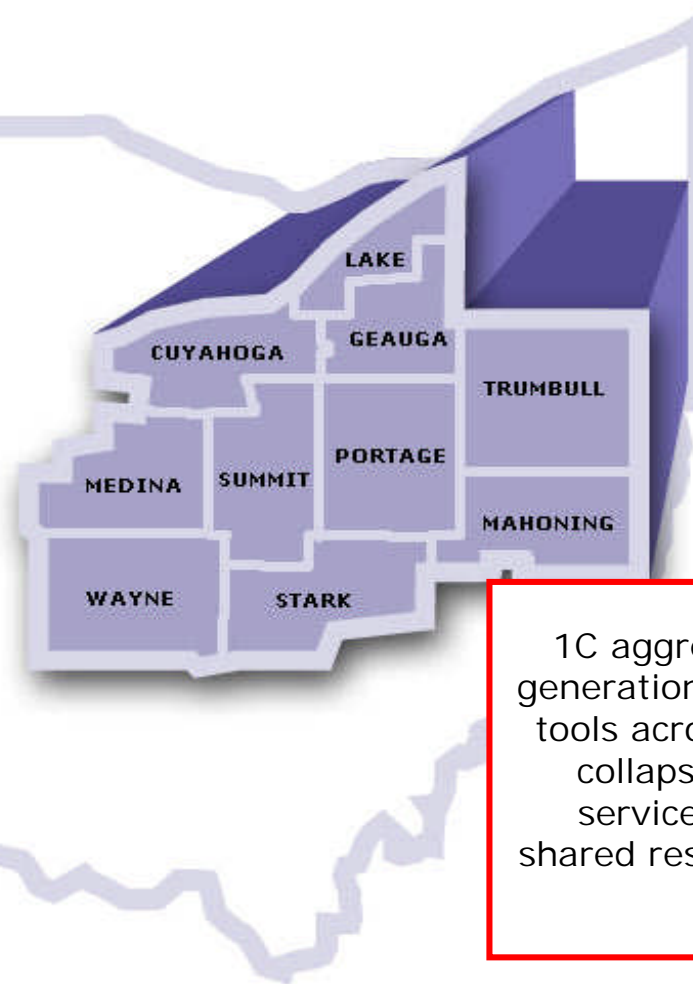- City of Euclid
- City of Mayfield Village

Civic
- Cleveland Leadership Center
- Consortium of African-American Organizations
- Cuyahoga County Public Library
- ideastream (WVIZ/NPR)
- JumpStart
- NorTech
- ShoreBank Enterprise Incubator

Community Fiber Network

One of the Largest and Fastest Networks in the World

Working collaboratively,
*Northeast Ohio ranks
as a top-25 world market* **with a population
of more than four million,
representing a**
$150 billion economy.

LAKE

CUYAHOGA

GEAUGA

TRUMBULL

PORTAGE

MEDINA

SUMMIT

MAHONING

WAYNE

STARK

1C aggregates and shares next-generation digital infrastructure and tools across the region. Resulting collapsed costs and managed services encourage adoption, shared resources, capacity building, and innovation.

International Recognition and Awards

Leading the Global IT Revolution

THE TOP SEVEN INTELLIGENT COMMUNITIES OF 2006:

in alphabetical order are:

- **Cleveland & N.E. Ohio, USA**
- Gangnam District, **S. Korea**
- Ichikawa, **Japan**
- Manchester, **UK**
- Taipei, **Taiwan**
- Tianjin, **China**
- Waterloo, Ontario, **Canada**

THE COMPUTERWORLD HONORS PROGRAM

"Honoring World Leaders Using IT to Benefit Society"

Awarded Twice by Top 100 Global Tech CEOs

Intel Corp. proclaims OneCommunity and Northeast Ohio:

intel ®

"Top 4 Worldwide Digital Community" (8/05)

Northeast Ohio Regional Health Care

Program that Supports Federal Health Care Agenda - One of the cornerstones of necessary change outlined by HHS Secretary Michael Leavitt:

Connecting the System: Every medical provider has some system for health records. Increasingly, those systems are electronic. Standards need to be identified so all health information systems can quickly and securely communicate and exchange data.
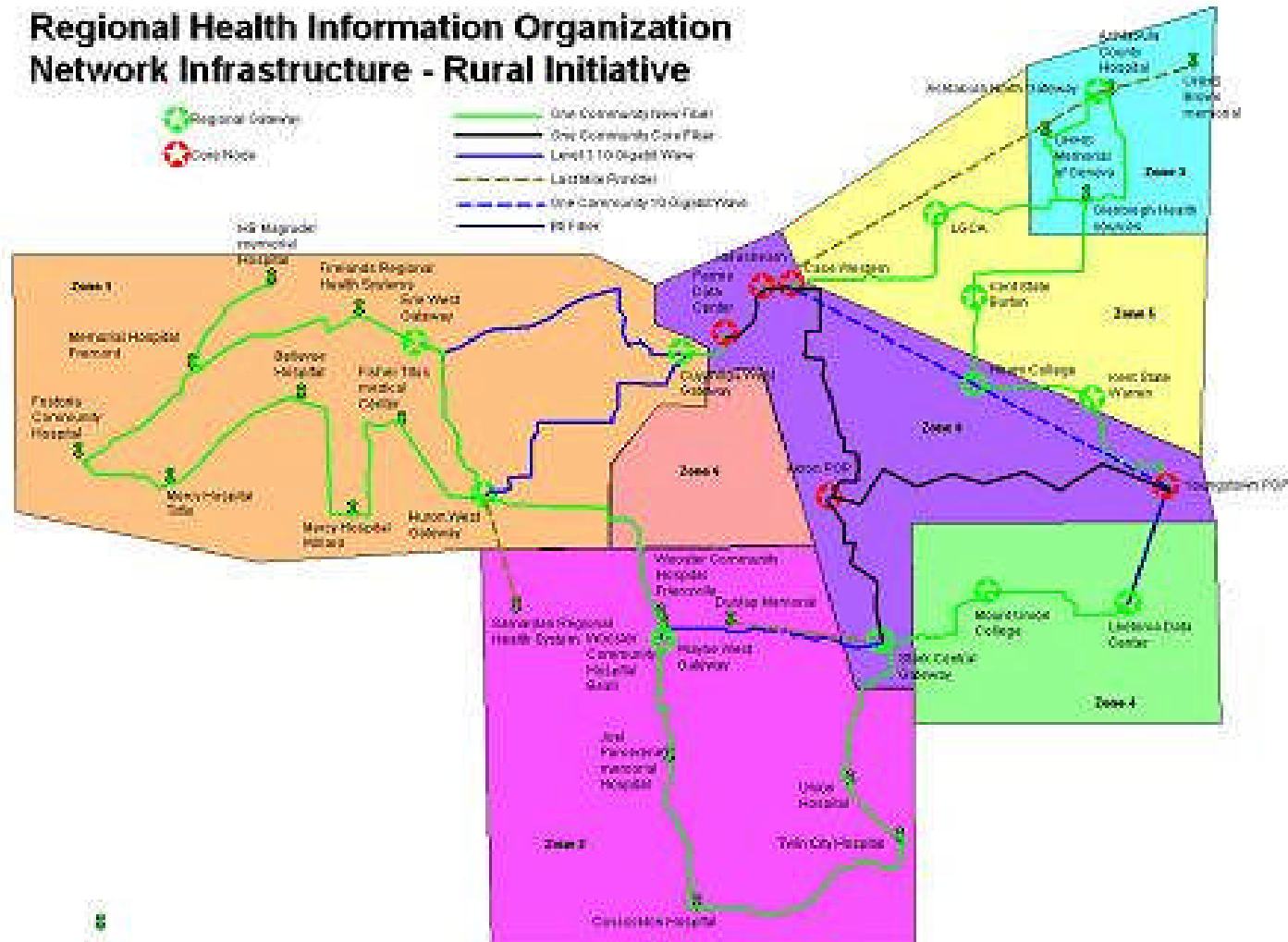
- Creation of the Northeast Ohio Regional Health Information Org. (NEO RHIO)
  - Participation by renowned regional health care systems such as Akron Children's, Akron General, Aultman, Cleveland Clinic, Lerner Research, MetroHealth, Summa Healthcare, and University Hospitals
  - Collaborative development of a Health Information Exchange and Systems
  - Aligning of Forces For Quality (AF4Q) – Health Care Performance Metrics
- Collaborative development of Practitioner Big Broadband capabilities linked to OneCommunity Network
  - Broadband fiber network enabling high-capacity multimedia services "HealthNet"
  - Wireless Access for remote/home health care applications
  - Collaborative development of rural and urban health care education, training and telemedicine

OneCommunity RHCP Proposal

- **Project Name:** OneCommunity/NEO RHIO HealthNet

- **FCC RHCP HealthNet Proposal:** OneCommunity and NEO RHIO submitted a proposal with two options

  - *Dark Fiber and Multi-Gigabit Service Option 1:* $11.286 MM that also requires the region to match between $4.836MM, of which half is an in-kind contribution from OneCommunity.

  - *Hybrid Dark Fiber and with 10 Rural Hospitals Downgraded 100 Mbps Wireless Option 2:* $5.454MM that also requires the region to match between $4.462MM, of which half is an in-kind contribution from OneCommunity.
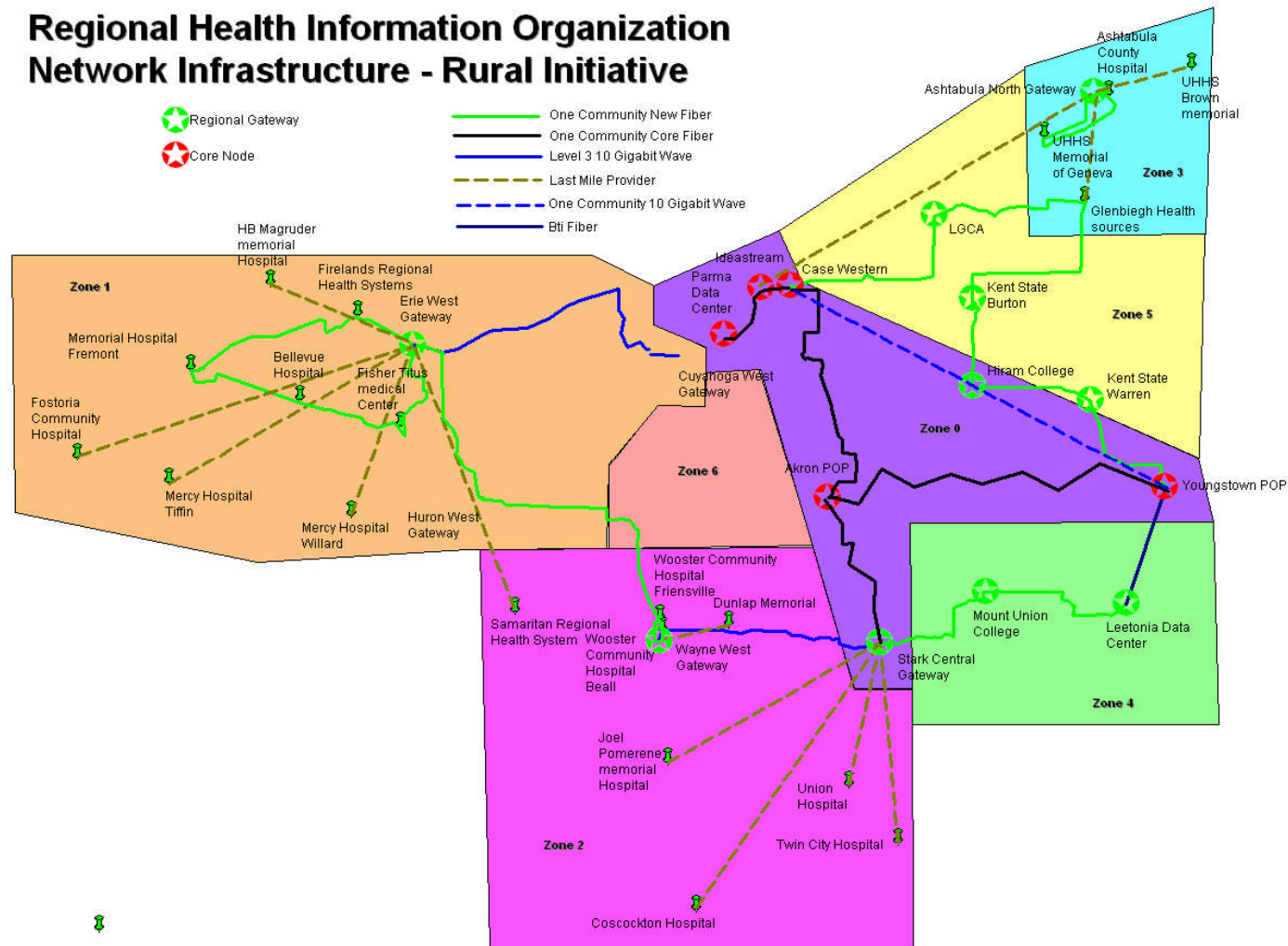
OneCommunity/NEO RHIO "HealthNet"
Dark Fiber and Multi-Gigabit Service Option 1

OneCommunity/NEO RHIO "HealthNet"
Hybrid Fiber and 10 Hospitals Downgraded to 100 Mbps Wireless Services Option 2

Regional Health Information Organization
Network Infrastructure - Rural Initiative

Legend:
- ★ Regional Gateway
- ★ Core Node
- One Community New Fiber
- One Community Core Fiber
- Level 3 10 Gigabit Wave
- Last Mile Provider
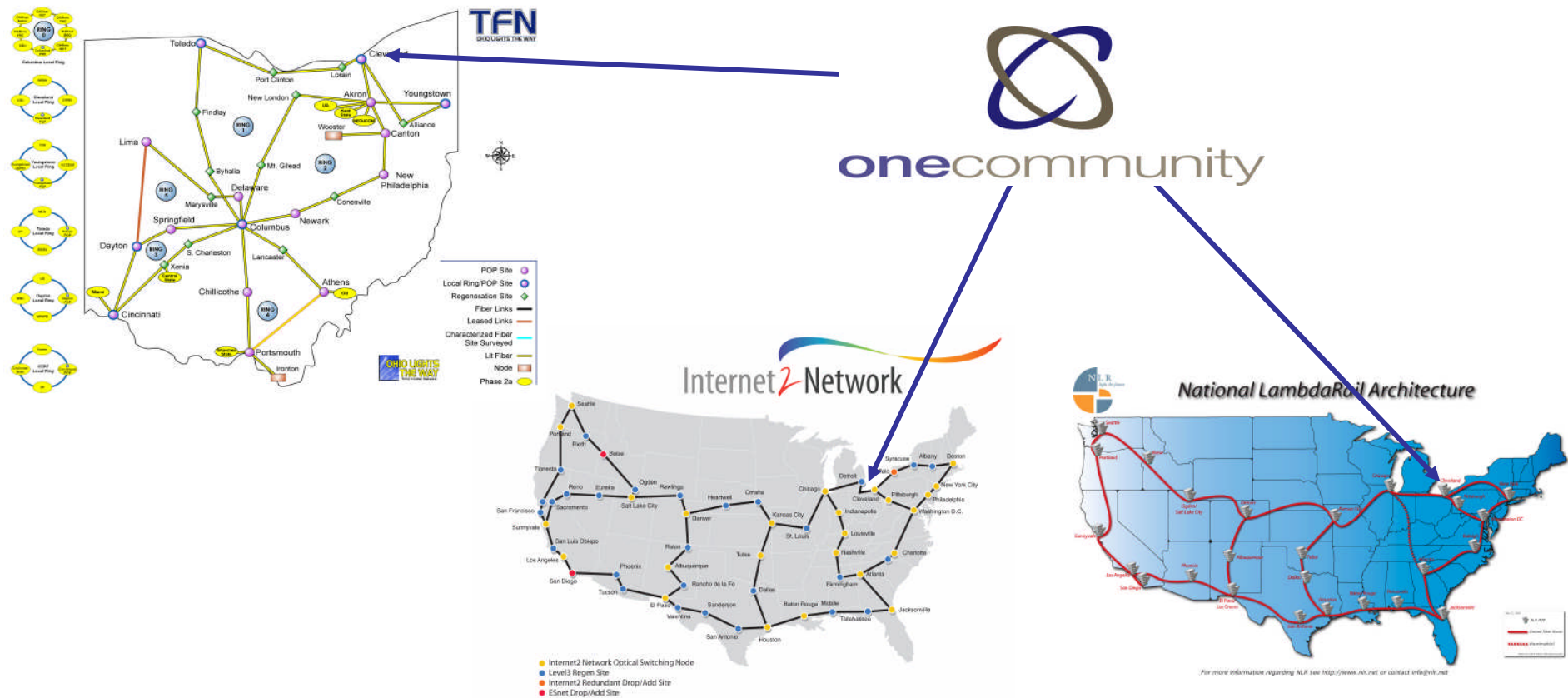- One Community 10 Gigabit Wave
- Bti Fiber

FCC RHCP Proposal Objectives

- Extending the current network and install additional gigabyte optical fiber connections to hospitals and government health agencies in the rural areas of Northeast Ohio.

- Connecting nineteen (19) qualified rural hospitals located in the Northeast Ohio rural health region over a dedicated broadband network;

- Extending the OneCommunity/NEO RHIO services to rural providers;

- Creating a regional repository that employs secure telehealth applications for chronic disease monitoring and continuing education services; and

- Implementing sustainable enterprise solutions using health information technology (HIT) for eligible providers in rural and underserved counties. This network is expected to improve the quality of health care while reducing its cost.

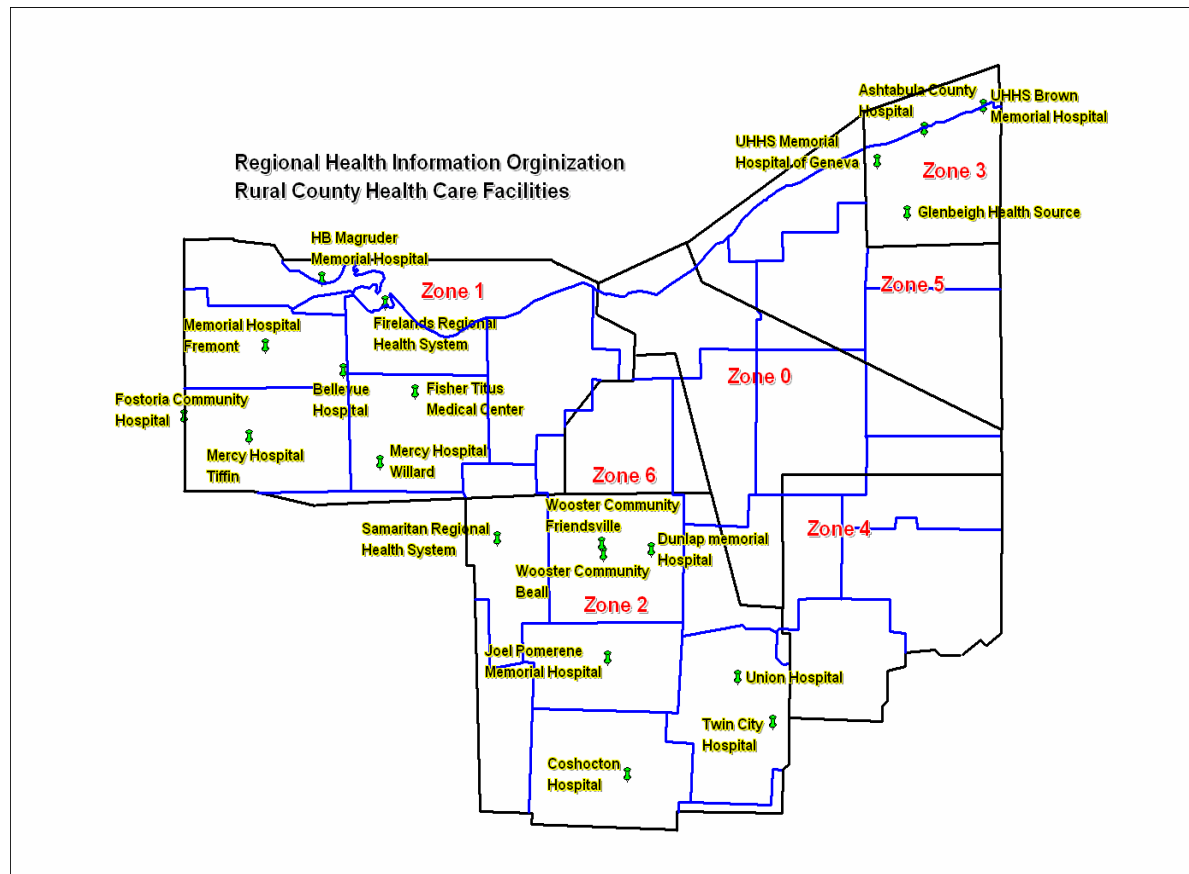# Connected to Broadband Leaders Nationwide and Beyond

National LambdaRail / Internet2

State of Ohio's "Third Frontier Network / OSCnet/Ohio Broadband Network"

HealthNet Regional Expansion

*Provides connectivity for 19 additional rural hospitals
and covers 22 Northeast Ohio counties in six regional zones.*

Zone 0 – Cuyahoga, Summit, Stark, Portage, Mid Mahoning
Zone 1 – Lorain, Huron, Erie, Sandusky, Seneca
Zone 2 – Ashland, Wayne, Western Stark, Holmes, Tuscarawus, Coshocton
Zone 3 – Ashtabula
Zone 4 – Carrolton, Columbiana, Eastern Stark, South Mahoning.
Zone 5 – Trumbull, Geauga, Lake.
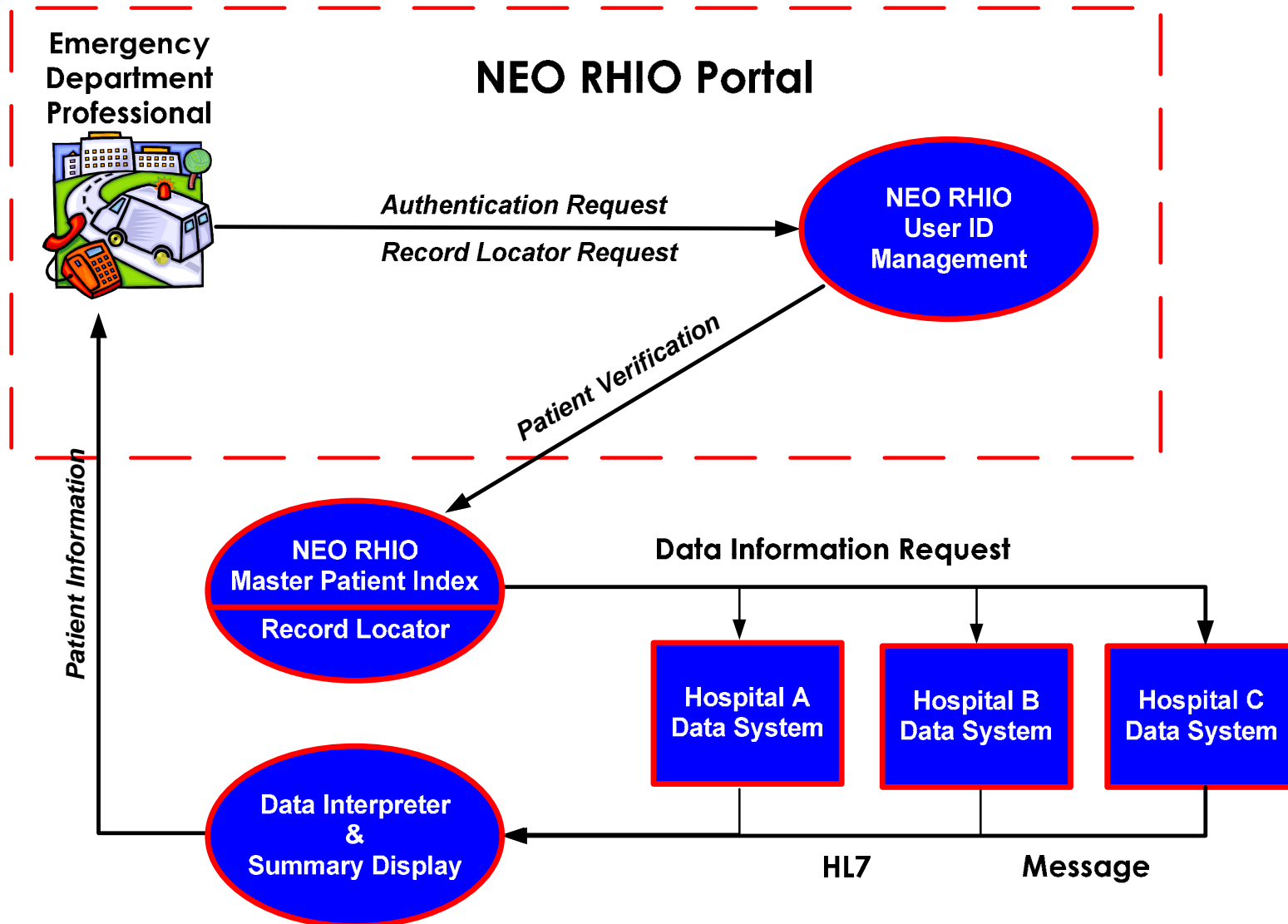**Zone 6** – Medina

Nationally Recognized Leaders
in Health Care/NEO RHIO

- Akron Children's Hospital
- Aultman Hospital
- Cleveland Clinic Foundation
- University Hospitals
- Summa Healthcare
- Sisters of Charity Hospitals

NEO RHIO
Health Information Exchange & Telemedicine

Emergency Department Professional

NEO RHIO Portal

Authentication Request

Record Locator Request

NEO RHIO User ID Management

Patient Verification

Patient Information

NEO RHIO Master Patient Index

Record Locator

Data Information Request

Hospital A Data System

Hospital B Data System

Hospital C Data System

Data Interpreter & Summary Display

HL7   Message

OneCommunity/NEO RHIO Benefits

- Ability as a <u>neutral party to bring our community's competitive forces together</u> to enhance and improve our broadband, education, health care and workforce;

- Ability to <u>attract significant community, state, and vendor investment</u> for the adoption and use of broadband technology as an <u>economic development tool</u> in Northeast Ohio;

- Capability to develop and implement core infrastructure and <u>interoperable interconnections with all the region's common carriers</u>, state and national networks such as Internet 2 and National Lambda Rail;

- Capability to <u>collaborate with a highly competitive global health care community</u> to develop a regional Health Information Exchange (HIE) and telehealth applications through NEO RHIO and;

- <u>Sustainability necessary to ensure the success</u> of expanding OneCommunity's core network into the rural communities of Northeast Ohio for the NEO RHIO HealthNet project.

Connecting Health Care with OneCommunity!

www.OneCommunity.org

mansboury@OneCommunity.org

Connecting, Enabling & Transforming
Our Community

Supplemental Information

Building a Globally Competitive Region

Digital infrastructure is a defining asset of the knowledge economy. Globally competitive regions need to leverage digital assets.

In broadband adoption per capita, the U.S. has fallen from #2 in the world to #17. The competitive advantage, including research and high-tech innovation, has now shifted overseas.

OneCommunity (1C) connects Northeast Ohio's public and nonprofit institutions to our region's world-class digital infrastructure and advanced technology services provided by our local technology businesses.

Our Mission:

Leverage IT to build a globally competitive region by:

Connecting our public and nonprofit institutions to our regional community network in partnership with networking, telecom and technology leaders

Enabling enhanced, innovative services and collaborations, with **emphasis on education, health care, and workforce development**

Transforming the quality of life, economic opportunities and reputation of our region

Founders & Board

OneCommunity Board of Directors

- **Co-Chairs:**
    - Robert W. Briggs, Chairman, Fund for our Economic Future; Exec. Dir., GAR Foundation;
      Former CEO/Chairman, Buckingham, Doolittle & Burroughs, LLP
    - Jeanette Grasselli Brown, Ohio Board of Regents

- **Dorothy C. Baunach, President & CEO, NorTech**
- **Paul G. Clark, President, National City Bank Northern Ohio**
- **Sari Feldman, Executive Director, Cuyahoga County Public Library**
- **Lev Gonick, VP and CIO, Case Western Reserve University**
- **Dr. Lois M. Nora, President, Northeastern Ohio Universities College of Medicine/ Pharmacy**
- **John O'Donnell, Ph.D., President, Stark State College of Technology**
- **Dr. Luis M. Proenza, President, The University of Akron**
- **Dr. Michael Schoop, President, Cuyahoga Community College Metro Campus**
- **Dr. Michael Schwartz, President, Cleveland State University**
- **Robert C. Smith, President & CEO, Spero-Smith Investment Advisors, Inc.;**
    Board Member, Cleveland-Cuyahoga County Port Authority
- **Raymond M. Voelker, CIO, Progressive Insurance**
- **Jerrold F. Wareham, President, ideastream (PBS and NPR)**

Statement of Financial Position

OneCleveland/OneCommunity
Statement of Financial Position
December 31, 2005 and December 31, 2006

ASSETS	Audited 2005	Unaudited 2006
Current Assets	1,189,789	1,789,313
Property and Equipment	2,403,560	4,436,521
Other Assets	2,366,965	5,209,195
Total Assets	$ 5,960,314	$ 11,435,029

LIABILITIES AND NET ASSETS

Current Liabilities	910,726	3,944,178
Long-Term portion of capital lease	-	1,211,226
Total Liabilities	910,726	5,155,404
Net Assets	5,049,589	6,279,625
Total Liabilities & Net Assets	$ 5,960,314	$ 11,435,029

Statement of Changes in Net Assets

OneCleveland/OneCommunity
Statement of Changes in Net Assets
December 31, 2005 and December 31, 2006

	Audited	Unaudited
	2005	December 2006
	Total	Total
Revenues		
Total Revenues	6,563,395	6,561,709
Expenses		
Total Expenses	2,069,767	5,331,672
Net Increase/(Decrease) in net Assets	4,493,628	1,230,036
Net Assets Beginning Balance	555,961	5,049,589
Net assets Ending Balance	5,049,589	6,279,625

Marketing Our Global Leadership

SMART
21
Intelligent
Community
Forum

Government Computer News | GCN.com

The New York Times
ON THE WEB

WSJ.com THE WALL STREET JOURNAL.
ONLINE

BUSINESS 2.0
The playbook for a new generation of leaders™

InformationWeek
BUSINESS INNOVATION POWERED BY TECHNOLOGY

Top 7 International Intelligent Community

ICF Intelligent Community Forum
A PROJECT OF WORLD TELEPORT ASSOCIATION

Top 3 International Visionary Community Of The Year – ICF

Finalist for Best International Application Of The Year

In April of each year, ten panels of distinguished judges, one panel for each of the categories, review the case studies submitted by that year's class of Computerworld Honors Laureates and name Worldwide Finalists for the program's 21st-Century Achievement Award. Two months later, in June, the Finalists are the guests of honor at ceremonies in Washington, DC, when the Computerworld Honors Program presents to the most outstanding finalist in each category a 21st Century Achievement Award.

e
EDUCAUSE

COMPUTERWORLD An IDG company

Finalist for Ernst & Young Entrepreneur Of The Year®

ERNST & YOUNG
Quality In Everything We Do

FCC Federal Communications Commission

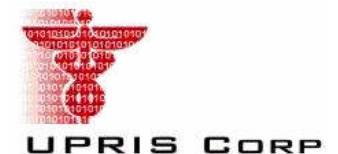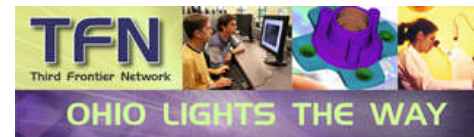CNBC

RED HERRING

THE BUSINESS OF TECHNOLOGY
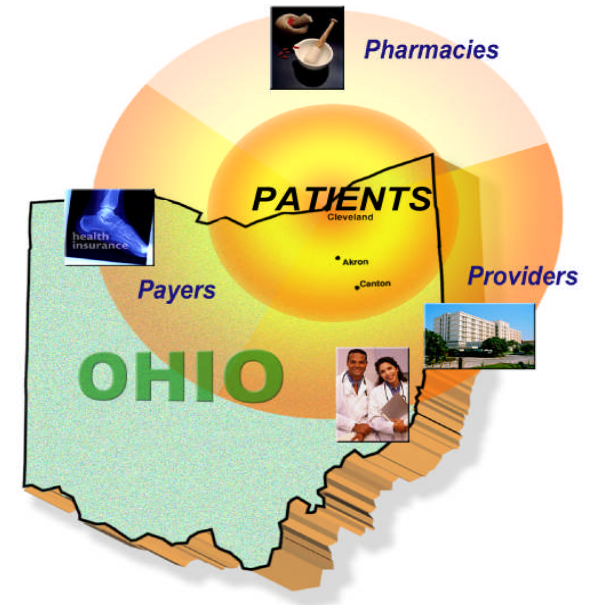
CNN.com.

washingtonpost.com

The Seattle Times
seattletimes.com

Our Technology Partners

NEO RHIO

Supplemental Information

What is NEO RHIO?

- Collaboration of Health Care Providers in Northeast Ohio to Create a Neutral, Third-Party Regional Health Information Exchange (HIE)
  - Current Status
    - Initial business case under review by CIOs/CEOs of NEO health care providers, associations and initial founding organizations
    - Initial focus on Emergency Department (ED) integration and exchange of medical record information between institutions
    - Other business focus on biosurveillance, public health reporting and administrative services
  - Goal
    - Full health information and medical record access anywhere it's needed, when it's needed

NEO RHIO Mission

- NEO RHIO will work to:
  - Make all necessary health care information available to patients and providers where it is needed, when it is needed
  - Provide a secure, confidential, patient-controlled environment for health information exchange
  - Provide opportunities for patients to more actively participate in their health care
  - Reduce duplicative testing, administrative burdens, and other barriers to cost-effective health care
  - Enable important public health functions including biosurveillance
  - Enable more effective disease prevention and chronic disease management
  - Enable health care research using de-identified data
  - Reduce disparities in health care
  - Provide transparency to enhance quality assessment and value comparison
  - Enhance the economic viability of the region

NEO RHIO Initial HIE Services

- In NEO RHIO's development stages, these HIE services are intended to include:
  - Federated Identity (Single Sign-On Authentication and HIE Access Services)
  - HIE Electronic Master Patient Index (eMPI)/Record Locater Services (RLS) (to be further defined by NEO RHIO)
  - NEO RHIO-Managed HIE Gateway (Individual information server located in a mutually agreeable exchange point internal or external to the applicant's firewall)
  - Access to NEO RHIO Member Health Information (to be further defined by NEO RHIO)
  - Access to NEO RHIO Public Health and BioSurveillance Information
  - Ability to Opt-In to other fee-based member services and programs that will be developed as part of the NEO RHIO sustaining and expansion efforts

Linking Health Care and Education

"Together we can develop a healthier community
and the workforce for the 21st Century"

- OneCommunity will:
  - **Connect** our schools to our health care providers
  - Provide unparalleled distance learning and video opportunities, including online mentoring, interactive live surgeries with Q&A, virtual tours of the world
  - Develop telemedicine strategies and capabilities for rural communities
  - Assist in the development of a new generation of doctors, nurses, scientists, and health care providers
  - Provide the bridge for directed wellness care and education, data collection, communications, and clinical communications
  - Enable the **technical infrastructure for training** to meet current and expected demand for health care providers